L Number	Hits	Search Text	DB	Time stamp
1	1	("5057855").PN.	USPAT;	2003/09/26
			US-PGPUB	11:19
2	1	("4635073").PN.	USPAT; US-PGPUB	2003/09/26
-	231	347/50.ccls.	USPAT;	2003/09/26
	100	247/50 7717 274 72427	US-PGPUB	10:51
_	109	347/50.ccls. and power	USPAT; US-PGPUB	2002/05/28
-	49	347/50.ccls. and power and voltage	USPAT;	2002/05/28
_	1	347/50.ccls. and MEMS	US-PGPUB USPAT;	12:48 2002/05/28
	_		US-PGPUB	12:56
-	76	347/50.ccls.	EPO; JPO; DERWENT;	2002/05/28
			IBM TDB	12.37
-	5	347/50.ccls. and power	EPO; JPO;	2002/05/28
			DERWENT; IBM TDB	12:58
-	0	347/439.ccls.	EPO; JPO;	2002/05/28
			DERWENT;	12:58
-	1	("4899174").PN.	IBM_TDB USPAT;	2002/05/28
			US-PGPUB	15:30
-	1	("5177502").PN.	USPAT; US-PGPUB	2002/05/28
-	21		USPAT;	2002/05/29
_	60733	347/1-109.ccls. 439/\$.ccls.	US-PGPUB USPAT;	17:11   2002/05/28
-	60733	439/\$.0018.	US-PGPUB	16:49
-	1408	439/\$.ccls. and ((bus adj bar\$1) or	USPAT;	2002/05/28
_	736	busbar\$1)   439/\$.ccls. and ((bus adj bar\$1) or	US-PGPUB USPAT;	16:53 2002/05/28
		busbar\$1) and power	US-PGPUB	16:55
-	224	439/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power and TAB	USPAT; US-PGPUB	2002/05/28
_	77		USPAT;	2002/05/28
		busbar\$1) and power and TAB and print\$5	US-PGPUB	16:58
-	31	439/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power and TAB and print\$5	USPAT; US-PGPUB	2002/05/28
		and voltage		
-	53172	174/\$.ccls.	USPAT; US-PGPUB	2002/05/28
_	12416	439/\$.ccls.	EPO; JPO;	2002/05/28
			DERWENT;	16:49
-	157	   439/\$.ccls. and ((bus adj bar\$1) or	IBM_TDB   EPO; JPO;	2002/05/28
		busbar\$1)	DERWENT;	16:50
_	1	   439/\$.ccls. and ((bus adj bar\$1) or	IBM_TDB EPO; JPO;	2002/05/28
		busbar\$1) and power and TAB	DERWENT;	16:51
_	803	   174/\$.ccls. and ((bus adj bar\$1) or	IBM_TDB USPAT;	2002/05/28
		busbar\$1)	US-PGPUB	17:11
-	518	174/\$.ccls. and ((bus adj bar\$1) or	USPAT;	2002/05/28
_	83	busbar\$1) and power   174/\$.ccls. and ((bus adj bar\$1) or	US-PGPUB USPAT;	2002/05/28
		busbar\$1) and power and TAB	US-PGPUB	16:57
-	27	174/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power and TAB and print\$5	USPAT; US-PGPUB	2002/05/28
-	11922	174/\$.ccls.	EPO; JPO;	2002/05/28
			DERWENT; IBM TDB	17:07
-	163	174/\$.ccls. and ((bus adj bar\$1) or	EPO; JPO;	2002/05/28
		busbar\$1)	DERWENT;	17:11
_	19	   174/\$.ccls. and ((bus adj bar\$1) or	IBM_TDB EPO; JPO;	2002/05/28
		busbar\$1) and power	DERWENT;	17:11
_	1	("4400709").PN.	IBM_TDB USPAT;	2002/05/28
			US-PGPUB	19:10

Search History 9/26/03 11:58:57 AM

Page 1

Updale Search 2

-	158	(printhead\$2 and MEMS) and	USPAT;	2002/05/29
l_	135	347/1-109.ccls. (printhead\$2 and MEMS and chip) and	US-PGPUB USPAT;	17:11   2002/05/29
	155	347/1-109.ccls.	US-PGPUB	17:12
_	2	347/50.ccls. and TAB and ((double adj	USPAT;	2002/06/06
	_	sided) or double-sided)	US-PGPUB	15:08
-	1	("5494698").PN.	USPAT;	2002/06/06
			US-PGPUB	14:16
-	62	thermal adj bend adj actuator	USPAT;	2002/06/06
			US-PGPUB	15:09
-	89	printhead and interconnect and (one adj	USPAT; US-PGPUB	2002/06/07 11:33
_	89	printhead and interconnect and (one adj	USPAT;	2002/06/07
	0,3	edge)	US-PGPUB	11:35
-	9	printhead and (interconnect same (one adj	USPAT;	2002/06/07
		edge))	US-PGPUB	11:36
-	175	347/42.ccls.	USPAT;	2002/06/11
		247/42 ==1= ==d =====	US-PGPUB	11:06
-	82	347/42.ccls. and power	USPAT; US-PGPUB	2002/06/11 11:06
_	13	347/42.ccls. and power and interconnect	USPAT;	2002/06/11
		power and recommend	US-PGPUB	11:18
-	337.	347/13	USPAT;	2002/06/11
			US-PGPUB	11:18
_	85	347/13.ccls.	USPAT;	2002/06/11
_	62	347/13.ccls. and power	US-PGPUB USPAT;	11:18   2002/06/11
	02	3477 13. cc13. and power	US-PGPUB	11:18
_	6	347/13.ccls. and power and interconnect	USPAT;	2002/06/11
		_	US-PGPUB	11:29
-	290	347/237.ccls.	USPAT;	2002/06/11
	186	347/237.ccls. and power	US-PGPUB USPAT;	11:29   2002/06/11
-	100	347/237.CCIS. and power	US-PGPUB	11:30
_	11	347/237.ccls. and power and interconnect	USPAT;	2002/06/11
			US-PGPUB	11:41
-	274	347/238.ccls.	USPAT;	2002/06/11
	149	247 (2201	US-PGPUB USPAT;	11:41   2002/06/11
-	149	347/238.ccls. and power	US-PGPUB	11:42
_	8	347/238.ccls. and power and interconnect	USPAT;	2002/06/11
			US-PGPUB	11:45
-	11	347/50,42,13,237,238.ccls. and inkjet and	USPAT;	2002/06/11
	3.	LED 247/50 42 12 227 228 ggls and //wine add	US-PGPUB	12:03
-	33	347/50,42,13,237,238.ccls. and ((wire adj bond\$3) same TAB)	USPAT; US-PGPUB	2002/06/11
-	3	347/50,42,13,237,238.ccls. and (inkjet	USPAT;	2002/06/11
		same LED)	US-PGPUB	12:03
-	2	347/50 and power\$4 and (bus\$4 adj bar\$2)	USPAT;	2003/03/13
			US-PGPUB;	16:00
			EPO; JPO; DERWENT;	
			IBM TDB	
-	58	347/50 and power\$4 and bus\$4	USPAT;	2003/03/13
			US-PGPUB;	16:14
1			EPO; JPO;	
			DERWENT; IBM TDB	
_	62	347/42 and power\$4 and bus\$4	USPAT;	2003/03/13
			US-PGPUB;	16:35
			EPO; JPO;	
			DERWENT;	
_	55	(347/42 and power\$4 and bus\$4 ) not	IBM_TDB   USPAT;	2003/03/13
	33	(347/50 and power\$4 and bus\$4 ) not (347/50 and power\$4 and bus\$4 )	US-PGPUB;	16:15
		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO;	
			DERWENT;	
L			IBM TDB	

-	72	347/13 and power\$4 and bus\$4	USPAT;	2003/03/13
'	1		US-PGPUB;	16:26
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	66	(347/13 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )	US-PGPUB;	16:26
1			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	48	((347/13 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )) not	US-PGPUB;	16:26
		((347/42 and power\$4 and bus\$4 ) not	EPO; JPO;	
		(347/50 and power\$4 and bus\$4 ))	DERWENT;	
			IBM_TDB	
-	97	347/237 and power\$4 and bus\$4	USPAT; .	2003/03/13
			US-PGPUB;	16:51
	-		EPO; JPO;	
			DERWENT;	
			IBM_TDB	i
-	95	(347/237 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )	US-PGPUB;	16:36
1			EPO; JPO;	
	1		DERWENT;	
			IBM_TDB	
-	92		USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )) not	US-PGPUB;	16:36
		(347/42 and power\$4 and bus\$4 )	EPO; JPO;	·
			DERWENT;	
			IBM_TDB	
-	86		USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )) not	US-PGPUB;	16:39
		(347/42 and power\$4 and bus\$4 )) not	EPO; JPO;	
		(347/13 and power\$4 and bus\$4 )	DERWENT;	1
			IBM_TDB	
-	1	(US-4455578-\$).did.	USPAT	2003/03/13
		247/020		16:39
<del>-</del>	59	347/238 and power\$4 and bus\$4	USPAT;	2003/03/13
			US-PGPUB; EPO; JPO;	16:55
			, ,	
			DERWENT; IBM TDB	
	50	(347/238 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/238 and power\$4 and bus\$4 )	US-PGPUB;	16:53
		(347/30 and powerly and busy)	EPO; JPO;	1 10.00
			DERWENT;	
			IBM TDB	
_	58	((347/238 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/230 and power\$4 and bus\$4 )) not	US-PGPUB;	16:53
		(347/42 and power\$4 and bus\$4 )	EPO; JPO;	
		1 (, -= min houndal - min nonle	DERWENT;	
-			IBM TDB	
-	54	(((347/238 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
	"	(347/50 and power\$4 and bus\$4 )) not	US-PGPUB;	16:53
		(347/42 and power\$4 and bus\$4 )) not	EPO; JPO;	
		(347/13 and power\$4 and bus\$4 )	DERWENT;	
		· · · · · · · · · · · · · · · · · · ·	IBM TDB	1
-	31	((((347/238 and power\$4 and bus\$4 ) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4 )) not	US-PGPUB;	16:54
		(347/42 and power\$4 and bus\$4 )) not	EPO; JPO;	
		(347/13 and power\$4 and bus\$4 )) not	DERWENT;	
		(347/237 and power\$4 and bus\$4 )	IBM TDB	<u> </u>
-	3	"6255588"	USPAT;	2003/03/17
			US-PGPUB	11:11
-	22	"4506272"	USPAT;	2003/03/17
			US-PGPUB	12:08
-	1	("4899174").PN.	USPAT;	2003/03/17
			US-PGPUB	12:08

-	853	347/50	USPAT;	2003/09/16
			US-PGPUB;	16:23
			EPO; JPO;	
			DERWENT;	]
			IBM_TDB	i
-	14	347/50 and (busbar\$2 or (bus adj bar\$2))	USPAT;	2003/09/16
			US-PGPUB;	16:09
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	25548	(busbar\$2 or (bus adj bar\$2))	USPAT;	2003/09/16
	200.0	(	US-PGPUB;	16:11
			EPO; JPO;	10.11
			DERWENT;	
			IBM TDB	
_	14	347/50 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
	14	bar\$2)))		16:11
		par\$2)))	US-PGPUB;	10:11
			EPO; JPO;	
			DERWENT;	
		247/40	IBM_TDB	
-	679	347/42	USPAT;	2003/09/16
			US-PGPUB;	16:12
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	14	347/42 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:12
1			EPO; JPO;	·
			DERWENT;	
			IBM TDB	
_	10	(347/42 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
	l <sup>‡</sup>	bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:14
		bary2//// not (34//30 and (busbary2 of (bus adj bar\$2)))	EPO; JPO;	**'. * 3
		(bus auj baryz)))	DERWENT;	
_	400	247/12	IBM_TDB	2002/00/16
-	499	347/13	USPAT;	2003/09/16
	1		US-PGPUB;	16:15
			EPO; JPO;	
			DERWENT;	· ]
	_		IBM_TDB	
-	5	347/13 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
]	]	bar\$2)))	US-PGPUB;	16:15
			EPO; JPO;	
	]		DERWENT;	
ļ i	1		IBM_TDB	
-	4	(347/13 and ((busbar\$2 or (bus adj	USPĀT;	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:15
		(bus adj bar\$2)))	EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	993	347/237	USPAT;	2003/09/16
			US-PGPUB;	16:19
			EPO; JPO;	
[			DERWENT;	
			IBM TDB	
_		247/227 and //hughant2 an /hug add		3003/00/16
-	١ ٥	347/237 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
	1	bar\$2)))	US-PGPUB;	16:16
			EPO; JPO;	
	1		DERWENT;	
		1 /	IBM_TDB	
-	809	347/238	USPAT;	2003/09/16
			US-PGPUB;	16:19
			EPO; JPO;	
	1		DERWENT;	
			IBM_TDB	
-	5	347/238 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:19
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
	<del></del>		_ =====	·

-	57359	347/\$	USPAT;	2003/09/16
			US-PGPUB;	16:23
			EPO; JPO;	
			DERWENT;	
	E220C	347/\$.ccls.	IBM_TDB	2002/00/16
-	52386	34//\$.CCIS.	USPAT;	2003/09/16
			US-PGPUB;	16:23
			EPO; JPO;	
			DERWENT;	
_	115	347/\$ and ((busbar\$2 or (bus adj bar\$2)))	IBM_TDB USPAT;	2003/09/16
	113	54// and ((busbaryz or (bus ad) baryz///	US-PGPUB;	16:24
		•	EPO; JPO;	10.21
			DERWENT;	
			IBM TDB	
_	101	(347/\$ and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:24
		(bus adj bar\$2)))	EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	91		USPĀT;	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:24
	1	(bus adj bar\$2)))) not (347/42 and	EPO; JPO;	
		((busbar\$2 or (bus adj bar\$2))))	DERWENT;	·
		l	IBM_TDB	
-	89	, , , , , , , , , , , , , , , , , , , ,	USPAT;	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:24
		(bus adj bar\$2)))) not (347/42 and	EPO; JPO;	
		((busbar\$2 or (bus adj bar\$2))))) not (347/13 and ((busbar\$2 or (bus adj	DERWENT; IBM TDB	
		(347/13 and ((busbarg2 of (bus ad)	TDM_IDD	
_	89		USPAT;	2003/09/16
	"	bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:24
	i	(bus adj bar\$2)))) not (347/42 and	EPO; JPO;	
		((busbar\$2 or (bus adj bar\$2)))) not	DERWENT;	
		(347/13 and ((busbar\$2 or (bus adj	IBM TDB	!
		bar\$2))))) not ((347/13 and ((busbar\$2 or	_	
		(bus adj bar\$2)))) not (347/50 and		1
1		(busbar\$2 or (bus adj bar\$2))))		
-	8		USPAT;	2003/09/25
		("4534814") or ("4635075") or ("4769527")	US-PGPUB	13:27
	1	or ("4899184") or ("5057855") or		
	_	("5317344")).PN.	HCDAT	2002/00/25
-	8	(US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-3903594-\$ or	USPAT	2003/09/25
		US-4769527-\$ or US-4635075-\$ or		13.20
		US-5057855-\$ or US-4899184-\$).did.		
-	8	1	USPAT	2003/09/25
		US-4021851-\$ or US-3903594-\$ or		16:15
		US-4769527-\$ or US-4635075-\$ or		
		US-5057855-\$ or US-4899184-\$).did.) and		
		(busbar\$2 or (bus adj bar\$2))		
-	96	thermal adj bend adj actuat\$4	USPAT	2003/09/25
				16:16
-	80		USPAT	2003/09/25
		actuat\$4)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16:16
-	2	347/50.ccls. and (thermal adj bend adj	USPAT	2003/09/25
	41	actuat\$4)	Henam	16:15
-	41	(thermal adj bend adj actuat\$4) with nozzle\$2	USPAT	2003/09/25 16:16
_	37	· · · · · · · · · · · · · · · · · · ·	USPAT	2003/09/25
	3/	actuat\$4) with nozzle\$2)	OSEAL	16:16
L	L	1	I	1